



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name		
PO039579	MCM001-VU	6	1	2% 10 Net 30	1328T68	440C SS Rod, 5/8" dia.				2	4/16/2018	2		S060873	Stock	4/13/2018	\$ 70.95 / ft	0		\$141.90	McMaster-Carr Supply Co.		
Total:											2		2									\$141.90	

Plex 4/13/2018 11:15 AM dart.Tollis.Andrew



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO039579**

Supplier: MCM001-VU
McMaster-Carr Supply Co.
P.O. Box 7690
Chicago, IL 60680-7690 USA
Phone: 330 995 5500
Fax: 330 995 9600

PO No: PO039579

PO Date: 4/11/18

Due Date: 4/16/18

Purchase Order
Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

E-MAILED
APR 12 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: 2% 10 Net 30

Freight Terms:

Special Comments:

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1	8695K761	4/ lenght	Polyurethane Rubber Rod, Abrasion-Resistant 7/8" Dia., 80A (Hard) Abrasion -Resistant Polyurethane Rubber Rod 1-1/4" Diameter	Firmed	4/16/18	8 ft	0 ft	8 ft	\$22.795/ft	\$182.36
2	9665K85	1/pk @ 20" long	Extension Spring 1/4" x 0.026" SS	Firmed	4/16/18	16.667 ft	0 ft	17 ft	\$5.4482179/ft	\$90.81
Line Item Note 10 pcs of 20" long = 16.6666										
3	C2-9-3	25/pk	Clock Spring Cover Screw	Firmed	4/16/18	50 Ea	0 Ea	50 Ea	\$0.1356/Ea	\$6.78
4	C2-11-2	90145A510 20/PK	Locating Pin	Firmed	4/16/18	60 Ea	0 Ea	60 Ea	\$0.4035/Ea	\$24.21
5	41735K11	1/pk	2-125 Air Regulator	Firmed	4/16/18	1 Ea	0 Ea	1 Ea	\$32.06/Ea	\$32.06
6	1328T68	2 ft long	440C SS Rod, 5/8" dia.	Firmed	4/16/18	2 ft	0 ft	2 ft	\$70.95/ft	\$141.90
7	9453K203		Water-Resistant, 1/32" Thick, 36" x 5 Feet	Firmed	4/16/18	15 sf	0 sf	15 sf	\$1.381333/sf	\$20.72
Grand Total:										\$498.84

Order Notes

QX

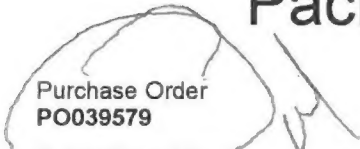


McMASTER-CARR®

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Packing List



Purchase Order
PO039579

Order Placed By
Chantal Lavoie

McMaster-Carr Number
2090854-01

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04/12/2018

Line	Product	Ordered	Shipped
1	1328T68 Hardened 440C Stainless Steel Rod, 5/8" Diameter, 2 Feet Long	1 Each	1

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 41328768
 DATE: APR 14 2018

PO / BATCH NO.: 039579/5060873

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 21
 QUANTITY INSPECTED: 21
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 5/8
 THICKNESS RECEIVED: 5/8
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	N/A
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	PO#039579 Part # 1328768
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> DATE: <u>11 APR 14 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



- Yield Strength: 65,000 psi
- Hardness: Rockwell C20 (Hard)
- Temper Rating: Softened (Annealed)
- Heat Treatable: Yes
- Max. Hardness after Heat Treatment: Rockwell C60
- Specifications Met: ASTM A276, AMS 5630

One of the hardest types of stainless steel after heat treating, 440C offers excellent wear and abrasion resistance. It's often used for bearings, valves, and knife blades. This material maintains its corrosion resistance in temperatures up to 800° F.

Dia.	Dia. Tolerance	Fabrication	Straightness Tolerance	Magnetic Properties		1/2 ft. Lg.	1 ft. Lg.	2 ft. Lg.	3 ft. Lg.	6 ft. Lg.
1/4"	-0.003" to 0.003"	Cold Worked	0.075" per 6 ft.	Magnetic	88985K93	\$4.27	\$7.11	\$12.74	\$17.18	\$29.62
3/8"	-0.003" to 0.003"	Cold Worked	0.075" per 6 ft.	Magnetic	88985K94	7.53	12.56	22.50	30.35	52.32
7/16"	-0.003" to 0.003"	Cold Worked	0.075" per 6 ft.	Magnetic	88985K95	9.00	15.00	26.88	36.25	62.50
1/2"	-0.003" to 0.003"	Cold Worked	0.075" per 6 ft.	Magnetic	88985K96	9.14	15.23	27.28	36.80	63.45
9/16"	-0.003" to 0.003"	Cold Worked	0.075" per 6 ft.	Magnetic	88985K97	11.03	18.39	32.94	44.43	76.61
5/8"	-0.003" to 0.003"	Cold Worked	0.075" per 6 ft.	Magnetic	88985K98	11.76	19.61	35.13	47.38	81.69
11/16"	-0.003" to 0.003"	Cold Worked	0.075" per 6 ft.	Magnetic	88985K15	13.92	23.21	41.58	56.09	96.70
3/4"	-0.003" to 0.003"	Cold Worked	0.075" per 6 ft.	Magnetic	88985K16	15.15	25.25	45.23	61.01	105.19
13/16"	-0.003" to 0.003"	Cold Worked	0.075" per 6 ft.	Magnetic	88985K21	17.78	29.63	53.09	71.61	123.47
7/8"	-0.003" to 0.003"	Cold Worked	0.075" per 6 ft.	Magnetic	88985K24	20.61	34.36	61.55	83.03	143.15
1 1/16"	-0.003" to 0.003"	Cold Worked	0.075" per 6 ft.	Magnetic	88985K26	23.67	39.45	70.67	95.33	164.36
1"	-0.003" to 0.003"	Cold Worked	0.075" per 6 ft.	Magnetic	88985K29	25.02	41.70	74.72	100.79	173.77
1 1/8"	-0.003" to 0.003"	Cold Worked	0.075" per 6 ft.	Magnetic	88985K32	27.62	46.03	82.48	111.25	191.81
1 1/4"	-0.003" to 0.003"	Cold Worked	0.075" per 6 ft.	Magnetic	88985K35	30.38	50.64	90.73	122.38	211.00
1 1/2"	-0.003" to 0.003"	Cold Worked	0.075" per 6 ft.	Magnetic	88985K37	31.97	53.28	95.46	128.76	222.00
1 3/8"	-0.003" to 0.003"	Cold Worked	0.075" per 6 ft.	Magnetic	88985K41	35.40	59.00	105.70	142.58	245.82
1 3/4"	-0.003" to 0.003"	Cold Worked	0.075" per 6 ft.	Magnetic	88985K43	39.05	65.08	116.61	157.28	271.18
1 7/8"	-0.003" to 0.003"	Cold Worked	0.075" per 6 ft.	Magnetic	88985K48	42.87	71.45	128.01	172.67	297.70
2"	-0.003" to 0.003"	Cold Worked	0.075" per 6 ft.	Magnetic	88985K49	45.57	75.96	136.09	183.56	316.48
1 1/2"	-0.003" to 0.003"	Cold Worked	0.075" per 6 ft.	Magnetic	88985K53	48.70	81.17	145.43	196.16	338.21
1 5/8"	-0.003" to 0.003"	Cold Worked	0.075" per 6 ft.	Magnetic	88985K55	54.21	90.35	161.87	218.34	376.44
1 3/4"	-0.003" to 0.003"	Cold Worked	0.075" per 6 ft.	Magnetic	88985K57	62.87	104.78	187.74	253.23	436.60
1 7/8"	-0.003" to 0.003"	Cold Worked	0.075" per 6 ft.	Magnetic	88985K59	70.68	117.80	211.06	284.69	490.84
2"	-0.003" to 0.003"	Cold Worked	0.075" per 6 ft.	Magnetic	88985K77	76.55	127.58	228.58	308.31	531.57
2 1/8"	0" to 0.047"	Hot Rolled	0.075" per 6 ft.	Magnetic	88985K79	80.73	134.55	241.08	325.17	560.64
2 1/4"	0" to 0.047"	Hot Rolled	0.075" per 6 ft.	Magnetic	88985K81	87.49	145.82	261.26	352.39	607.57
2 3/8"	0" to 0.047"	Hot Rolled	0.075" per 6 ft.	Magnetic	88985K82	94.31	157.19	281.63	379.87	654.95
2 1/2"	0" to 0.047"	Hot Rolled	0.075" per 6 ft.	Magnetic	88985K83	98.85	164.75	295.18	398.15	686.47
2 5/8"	0" to 0.047"	Hot Rolled	0.075" per 6 ft.	Magnetic	88985K84	108.98	181.63	325.42	438.94	756.80
2 3/4"	0" to 0.047"	Hot Rolled	0.075" per 6 ft.	Magnetic	88985K85	119.58	199.30	357.08	481.64	830.42
3"	0" to 0.047"	Hot Rolled	0.075" per 6 ft.	Magnetic	88985K86	144.45	240.75	431.34	581.81	1,003.12
3 1/4"	0" to 0.047"	Hot Rolled	0.075" per 6 ft.	Magnetic	88985K88	161.66	269.43	482.73	651.12	1,122.62
3 1/2"	0" to 0.047"	Hot Rolled	0.075" per 6 ft.	Magnetic	88985K89	208.71	347.84	623.22	840.62	1,449.35
3 3/4"	0" to 0.078"	Hot Rolled	0.075" per 6 ft.	Magnetic	88985K91	234.45	390.75	700.10	944.32	1,628.13
4"	0" to 0.078"	Hot Rolled	0.075" per 6 ft.	Magnetic	88985K92	266.16	425.11	794.77	1,035.05	1,848.31

Dia.	Dia. Tolerance	Fabrication	Straightness Tolerance	Magnetic Properties	Lg. Tolerance	1" Lg.	2" Lg.	3" Lg.	4" Lg.	
2"	-0.003" to 0.003"	Cold Worked	0.075" per 6 ft.	Magnetic	0" to 1/8"	88985K115	\$18.61	\$36.15	\$47.84	\$69.10
2 1/4"	0" to 0.047"	Hot Rolled	0.075" per 6 ft.	Magnetic	0" to 1/8"	88985K125	21.27	41.31	54.68	78.98
2 3/8"	0" to 0.047"	Hot Rolled	0.075" per 6 ft.	Magnetic	0" to 1/8"	88985K135	35.11	68.21	90.28	130.41
3"	0" to 0.047"	Hot Rolled	0.075" per 6 ft.	Magnetic	0" to 1/8"	88985K145	50.73	98.56	130.44	188.42
4"	0" to 0.078"	Hot Rolled	0.075" per 6 ft.	Magnetic	0" to 1/8"	88985K155	64.69	125.69	166.35	240.28
5"	0" to 0.078"	Hot Rolled	0.075" per 6 ft.	Magnetic	0" to 1/8"	88985K175	78.34	152.30	201.52	291.21

Hardened 440C Stainless Steel Rods



- Yield Strength: 275,000 psi
- Hardness: Rockwell C55 (Very Hard)
- Temper Rating: Hardened
- Specifications Met: ASTM A276, AMS 5630

These rods are hardened for superior strength and wear resistance. One of the hardest types of stainless steel after heat treating, 440C offers excellent wear and abrasion resistance. It's often used for bearings, valves, and knife blades. This material maintains its corrosion resistance in temperatures up to 800° F.

Dia.	Dia. Tolerance	Mechanical Finish	Straightness Tolerance	Magnetic Properties		1/2 ft. Lg.	1 ft. Lg.	2 ft. Lg.
1/8"	-0.0002" to 0"	Precision Ground	0.006" per ft.	Magnetic	1328T13	\$34.53	\$57.56	\$95.93
3/16"	-0.0002" to 0"	Precision Ground	0.006" per ft.	Magnetic	1328T26	42.20	70.33	117.21
1/4"	-0.0002" to 0"	Precision Ground	0.006" per ft.	Magnetic	1328T33	43.67	72.79	121.31
3/8"	-0.0002" to 0"	Precision Ground	0.006" per ft.	Magnetic	1328T48	44.78	74.64	124.40
1/2"	-0.0002" to 0"	Precision Ground	0.006" per ft.	Magnetic	1328T58	47.13	78.55	130.92
5/8"	-0.0002" to 0"	Precision Ground	0.006" per ft.	Magnetic	1328T66	51.08	85.14	141.90
3/4"	-0.0002" to 0"	Precision Ground	0.006" per ft.	Magnetic	1328T76	58.99	98.31	163.85
7/8"	-0.0002" to 0"	Precision Ground	0.006" per ft.	Magnetic	1328T92	61.92	103.20	172.00
1"	-0.0002" to 0"	Precision Ground	0.006" per ft.	Magnetic	1328T98	67.83	113.05	188.42

Tight-Tolerance 440C Stainless Steel Rods



- Yield Strength: 65,000 psi
- Hardness: Rockwell C20 (Hard)
- Temper Rating: Softened (Annealed)
- Heat Treatable: Yes
- Max. Hardness after Heat Treatment: Rockwell C60
- Specifications Met: ASTM A276, AMS 5630

The diameter of these precision-ground rods is held to a +0.000 stainless steel after heat treating. 440C offers excellent wear and abrasion resistance. It's often used for bearings, valves, and knife blades. This material maintains its corrosion resistance in temperatures up to 800° F.

Dia.	Dia. Tolerance	Straightness Tolerance	Magnetic Properties		1/2 ft. Lg.
1/8"	-0.0005" to 0"	1/16" per ft.	Magnetic	9094K131	\$7.13
3/16"	-0.0005" to 0"	1/16" per ft.	Magnetic	9094K132	8.00
1/4"	-0.0005" to 0"	1/16" per ft.	Magnetic	9094K133	8.91
3/8"	-0.0005" to 0"	1/16" per ft.	Magnetic	9094K134	10.24
1/2"	-0.0005" to 0"	1/16" per ft.	Magnetic	9094K135	10.86
5/8"	-0.0005" to 0"	1/16" per ft.	Magnetic	9094K136	12.13
3/4"	-0.0005" to 0"	1/16" per ft.	Magnetic	9094K137	12.89